


REMARKS

The amendments to the claims incorporate the subject matter of claim 15 into claim 8, thus reducing the number of claims. The additional amendments to claims 8 and 16 are clarifying amendments in which Applicant claims an "explosive bond" in structural language by reciting that the parts are "explosively bonded to one another " This is analogous to parts being "adhesively bonded to one another" or "fastened to one another" which are clearly structural limitations. This is not a new issue because the issue of explosive bonding has been present since the first office action.

The other amendments to claims 8 and 16 are merely clarifying amendments making more explicit what is already implicit in these claims.

If the Examiner has any suggestions as to how these claims might be amended to his satisfaction, Applicants attorneys would sincerely appreciate the suggestions.

Respectfully submitted,



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VERSION WITH MARKINGS TO SHOW CHANGES MADE

Please amend claims 8 and 16 as follows:

8. (Thrice Amended) A plate heat exchanger block comprising: an aluminum or aluminum alloy housing, at least partly within said housing a plurality of aluminum or aluminum alloy sheets (2) of at least partially corrugated metal arranged parallel to one another and forming a plurality of heat-exchange passages, at least one steel header (3) in communication with at least some of the heat-exchange passages, wherein at least two parts (1, 2, 3) of the plate heat exchanger block consist essentially of aluminum metallic materials that cannot be welded to one another, and wherein the plate heat exchanger block includes an intermediate piece (5) between the header (3) and the heat exchange passages (2) containing the plurality of sheets, the intermediate member having a steel part facing the header and an aluminum part facing the housing, the parts ~~having been being explosively~~ bonded together ~~by explosive plating~~ wherein the intermediate piece is welded, ~~aluminum-to-aluminum~~ aluminum-to-aluminum, to at least one of the (a) the housing and (b) the corrugated sheets and is also welded steel-to-steel with the steel header.

16. (Thrice Amended) A heat exchange header for attachment to a heat exchanger having aluminum components, the heat exchange header consisting essentially of steel and including a connecting piece having first and second sides, the connecting piece

consisting essentially of steel on one side and consisting essentially of aluminum the other side, the aluminum of the connecting piece being explosively bonded to the steel of the connecting piece, said header being welded to the steel side of said connecting piece.